

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/521,008
Source: PUT/10
Date Processed by STIC: 1/24/05

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PCT

RAW SEQUENCE LISTING

DATE: 01/24/2005

PATENT APPLICATION: US/10/521,008

TIME: 09:24:37

Input Set : A:\16384US04.SEQ.txt

Output Set: N:\CRF4\01242005\J521008.raw

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3 <110> APPLICANT: Van Den Hazel, Bart
4     Jensen, Anne D.
5     Nygaard, Frank B.
6     Andersen, Kim V.
8 <120> TITLE OF INVENTION: Full-length Interferon Gamma Polypeptide Variants
10 <130> FILE REFERENCE: 16384US04
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/521,008
C--> 12 <141> CURRENT FILING DATE: 2005-01-03
12 <150> PRIOR APPLICATION NUMBER: PCT/DK03/000426
13 <151> PRIOR FILING DATE: 2003-06-23
15 <160> NUMBER OF SEQ ID NOS: 13
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 143
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo Sapiens
25 <220> FEATURE:
26 <221> NAME/KEY: MISC FEATURE
27 <223> OTHER INFORMATION: Wild-type mature human IFN Gamma (without the signal peptide)
29 <400> SEQUENCE: 1
31 Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn
32 1                    5                    10                    15
35 Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile
36          20          25          30
39 Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser Gln
40          35          40          45
43 Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp Gln
44          50          55          60
47 Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val Lys
48 65          70          75          80
51 Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu Lys Leu Thr
52          85          90          95
55 Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His Glu
56          100         105         110
59 Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly Lys
60          115         120         125
63 Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg Arg Ala Ser Gln
64          130         135         140
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 166
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo Sapiens
73 <220> FEATURE:

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74 <221> NAME/KEY: MISC_FEATURE

75 <223> OTHER INFORMATION: Wild-type human IFN gamma with its 23 residue leader sequence

77 <400> SEQUENCE: 2

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79 Met Lys Tyr Thr Ser Tyr Ile Leu Ala Phe Gln Leu Cys Ile Val Leu
80 1          5          10          15
83 Gly Ser Leu Gly Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu
84          20          25          30
87 Asn Leu Lys Lys Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn
88          35          40          45
91 Gly Thr Leu Phe Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp
92          50          55          60
95 Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe
96 65          70          75          80
99 Lys Asn Phe Lys Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile
100          85          90          95
103 Lys Glu Asp Met Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg
104          100          105          110
107 Asp Asp Phe Glu Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val
108          115          120          125
111 Gln Arg Lys Ala Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser
112          130          135          140
115 Pro Ala Ala Lys Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Arg
116 145          150          155          160
119 Gly Arg Arg Ala Ser Gln
120          165

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123 <210> SEQ ID NO: 3

124 <211> LENGTH: 140

125 <212> TYPE: PRT

126 <213> ORGANISM: Artificial Sequence

128 <220> FEATURE:

129 <223> OTHER INFORMATION: ACTIMMUNE(r) - a 140 residue form of human IFN gamma
obtained by

130 fermentation from genetically engineered E. Coli

132 <400> SEQUENCE: 3

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134 Met Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe
135 1          5          10          15
138 Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly
139          20          25          30
142 Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser
143          35          40          45
146 Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp
147          50          55          60
150 Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val
151 65          70          75          80
154 Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu Lys Leu
155          85          90          95
158 Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His
159          100          105          110
162 Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly
163          115          120          125

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166 Lys Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg

167 130 135 140

170 <210> SEQ ID NO: 4

171 <211> LENGTH: 498

172 <212> TYPE: DNA

173 <213> ORGANISM: Artificial Sequence

175 <220> FEATURE:

176 <223> OTHER INFORMATION: Description of Artificial Sequence: Expression cassette
177 optimised for expression of interferon gamma in CHO cells

179 <400> SEQUENCE: 4

180 atgaagtaca caagctatat cctggccttt cagctgtgca tcgtgctggg ctccctgggc 60

182 tgctattgcc aggaccctta cgtgaaggag gccgagaacc tgaagaagta ctttaacgcc 120

184 ggccacagcg atgtggccga caatggcaca ctgtttctgg gcacccctgaa gaattggaag 180

186 gaggagagcg atcggaagat catgcagtc cagatcgtgt ccttctattt caagctgttt 240

188 aagaatttca aggacgatca gtccatccag aagtcctggg agaccatcaa ggaggacatg 300

190 aacgtgaagt ttttcaatag caataagaag aagagagacg atttcgagaa gctgaccaat 360

192 tactccgtga cagacctgaa cgtgcagaga aagggcatcc acgagctgat ccaggatgat 420

194 gccgagctgt ccccccgcgc caagaccggc aagagaaaga gaagccagat gctgttcaga 480

196 ggcagacggg ccagccag 498

199 <210> SEQ ID NO: 5

200 <211> LENGTH: 19

201 <212> TYPE: DNA

202 <213> ORGANISM: Artificial Sequence

204 <220> FEATURE:

205 <223> OTHER INFORMATION: Description of Artificial Sequence: Antisense downstream
vector

206 Primer ADJ 013

208 <400> SEQUENCE: 5

209 gatggctggc aactagaag 19

212 <210> SEQ ID NO: 6

213 <211> LENGTH: 19

214 <212> TYPE: DNA

215 <213> ORGANISM: Artificial Sequence

217 <220> FEATURE:

218 <223> OTHER INFORMATION: Description of Artificial Sequence: sense upstream vector
Primer

219 ADJ014

221 <400> SEQUENCE: 6

222 tgtacggtgg gaggtctat 19

225 <210> SEQ ID NO: 7

226 <211> LENGTH: 33

227 <212> TYPE: DNA

228 <213> ORGANISM: Artificial Sequence

230 <220> FEATURE:

231 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ093

233 <400> SEQUENCE: 7

234 gttcaggtct gtcacgctgt aattggtcag ctt 33

237 <210> SEQ ID NO: 8

238 <211> LENGTH: 33

239 <212> TYPE: DNA

240 <213> ORGANISM: Artificial Sequence

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242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ094
245 <400> SEQUENCE: 8
246 aagctgacca attacaccgt gacagacctg aac 33
249 <210> SEQ ID NO: 9
250 <211> LENGTH: 33
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ091
257 <400> SEQUENCE: 9
258 catgatcttc cgatcgggtct cgttcttcca att 33
261 <210> SEQ ID NO: 10
262 <211> LENGTH: 33
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ092
269 <400> SEQUENCE: 10
270 aattggaaga acgagaccga tcggaagatc atg 33
273 <210> SEQ ID NO: 11
274 <211> LENGTH: 40
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
281 <400> SEQUENCE: 11
282 ccgtcagatc ctaggctagc ttattgcggt agtttatcac 40
285 <210> SEQ ID NO: 12
286 <211> LENGTH: 32
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
293 <400> SEQUENCE: 12
294 gagctcggta ccaagctttt aagagctgta at 32
297 <210> SEQ ID NO: 13
298 <211> LENGTH: 9
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: upstream sequence for
304 optimizing mRNA translation
306 <400> SEQUENCE: 13
307 gccgccacc 9

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VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date